

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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*Sergio F. Chacon, Jr.*  
Sergio F. Chacon, Jr.

Applicant : Toshio Yamawaki  
Application No. : 09/530,145  
Filed : April 24, 2000  
Title : COMMUNICATION GATEWAY  
Group Art Unit : 2739  
Docket No. : 37395/DBP/A400

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**LETTER REQUESTING CORRECTION OF NOTICE OF ACCEPTANCE OF  
APPLICATION UNDER 35 U.S.C. 371 AND 37 CFR 1.494 OR 1.495**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Post Office Box 7068  
Pasadena, CA 91109-7068  
July 20, 2000

Commissioner:

The June 22, 2000 Notice (copy enclosed) incorrectly indicated that applicants did not file a Preliminary Amendment and did not provide a copy of the Preliminary Amendment incorporated into the application. Reconsideration is requested.

The transmittal letter to the U.S. Designated/Elected Office (Exhibit A hereto and a copy thereof enclosed) was filed accompanied by a document (Exhibit B hereto and a copy thereof enclosed) entitled "Preliminary Amendment". Therefore, the Preliminary Amendment was provided and was incorporated into the application in Exhibit A. Exhibit C is a copy of the return post card stamped by the U.S. Patent and Trademark Office acknowledging receipt of Exhibits A and B.

It is respectfully requested that a corrected Notification be provided correctly indicating that

1. A "Preliminary Amendment" was provided; and
2. the Preliminary Amendment has been entered.

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

By *D. Bruce Prout*

D. Bruce Prout  
Reg. No. 20,958  
(626) 795-9900

DBP/sfc

SFC PAS262675.1-\*7/19/00 10:27 AM

09/530115



Patent and Trademark Office  
Address: ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

JUN 26 2000

Christie, Parker &amp; Hale, LLP

U.S. APPLICATION NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/530,145	YAMAWAKI	37395/DBP
INTERNATIONAL APPLICATION NO.		

D BRUCE PROUT  
CHRISTIE PARKER & HALE  
P O BOX 7068  
PASADENA CA 91109-7068

5071

PCT/JP98704702

CASE #	ACTION	I.A. FILING DATE	PRIORITY DATE
37395	Appl. Acceptance		
RECEIVED	DATE	10/19/98	
DATE MAILED:	06/22/2000		

NOTIFICATION OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C. 371  
AND 37 CFR 1.494 OR 1.495

1. The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as ☐ a Designated Office (37 CFR 1.494), ☒ an Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is **ACCEPTED** for national patentability examination in the United States Patent and Trademark Office.

2. The United States Application Number assigned to the application is shown above and the relevant dates are:

24 APR 2000  
35 U.S.C. 102(e) DATE

24 APR 2000  
DATE OF RECEIPT OF  
35 U.S.C. 371 REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. **THE DATE APPEARING ON THE FILING RECEIPT AS THE "FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371(C) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE.** The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

3. ☒ A request for immediate examination under 35 U.S.C. 371(f) was received, on 24 APR 2000 and the application will be examined in turn.

4. The following items have been received:

- ☒ U.S. Basic National Fee.
- ☒ Copy of the international application in:
  - ☒ a non-English language.
  - ☒ English.
- ☒ Translation of the international application into English.
- ☒ Oath or Declaration of inventor(s) for DO/EO/US.
- ☒ Copy of Article 19 amendments. ☐ Translation of Article 19 amendments into English.
 

The Article 19 amendments ☐ have ☐ have not been entered.
- ☒ The International Preliminary Examination Report in English and its Annexes, if any.
- ☒ Copy of the Annexes to the International Preliminary Examination Report (IPER).
  - ☒ Translation of Annexes to the IPER into English.

The Annexes ☒ have ☐ have not been entered.
- ☐ Preliminary amendment(s) filed \_\_\_\_\_ and \_\_\_\_\_
- ☒ Information Disclosure Statement(s) filed 24 APR 2000 and \_\_\_\_\_
- ☒ Assignment document.
- ☐ Power of Attorney and/or Change of Address.
- ☐ Substitute specification filed \_\_\_\_\_
- ☐ Statement Claiming Small Entity Status.
- ☒ Priority Document.
- ☒ Copy of the International Search Report ☒ and copies of the references cited therein.
- ☐ Other:

Applicant is reminded that any communication to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above. (37 CFR 1.5)

Telephone: (703) 305-3661

FORM PTO-1390  
(REV 10-97)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371****DATE:** April 24, 2000**EXPRESS MAIL LABEL NO.**  
EL496226070US**ATTORNEY DOCKET NO.**  
37395/DBP**U.S. APPLICATION NO.**  
To Be Assigned**INTERNATIONAL APPLICATION NO.**  
PCT/JP98/04702**INTERNATIONAL FILING DATE**  
19.October.1998**PRIORITY DATE CLAIMED**  
24.October.1997**TITLE OF INVENTION****COMMUNICATION GATEWAY DEVICE****APPLICANT(S) FOR DO/EO/US**  
Toshio Yamawaki

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/LUS).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☒ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items below concern other document(s) or other information included:**

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.  
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☐ Small entity claim with a copy of this transmittal letter attached.
17. ☒ International search report.
18. ☒ International preliminary examination report.
19. ☒ Extra set of Drawings
20. ☒ English Translation of of International Application with English Translation of Annexes to IPER Incorporated
21. ☐

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>To Be Assigned</b>		INTERNATIONAL APPLICATION NO. <b>PCT/JP98/04702</b>		ATTORNEY DOCKET NO. <b>37395/DBP</b>	
<input checked="" type="checkbox"/> The following fees are submitted: (see Note (1) below) <b>Basic National Fee (37 CFR 1.492(a)(1)-5)):</b> Search Report has been prepared by the EPO or JPO ..... \$ 840.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) ... \$ 670.00 No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) ..... \$ 690.00 Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$ 970.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) ..... \$ 96.00 <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				<b>CALCULATIONS</b>	<b>PTO USE ONLY</b>
				<b>TECH CEN</b>	<b>RECEIVED</b>
				\$ 840.00	AUG - 1 2 1998
Surcharge of \$130 for furnishing the oath or declaration later than <input type="checkbox"/> 0 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
<b>Claims</b>	<b>Number Filed</b>	<b>Number Extra</b>	<b>Rate</b>		
Total Claims	9 <sup>3</sup> -20=	0	X \$18	\$ 0.00	
Independent Claims	6 -3=	3	X \$78	\$ 234.00	
Multiple dependent claim(s) (if applicable)			+ \$260	\$ 260.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 1,334.00	
Reduction by 1/2 for filing by small entity, if applicable. Verified Small entity statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28).				\$	
<b>SUBTOTAL =</b>				\$ 1,334.00	
Processing fee of \$130 for furnishing the English translation later than <input type="checkbox"/> 0 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				\$ 1,334.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ 40.00	
<b>TOTAL FEES ENCLOSED =</b>				\$ 1,374.00	
<b>Note (1):</b> The basic national fee must be paid when filing this application. The 20-month time limit (37 CFR § 1.494) and 30-month time limit (37 CFR § 1.495) are not extendable.				Amount to be:	
				refunded \$	
				charged \$	
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1,334.00 (filing fee) and \$40.00 (recording fee)</u> to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>03-1728</u> . A duplicate copy of this sheet is enclosed.					
<b>NOTE (2):</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO:  <b>D. Bruce Prout</b> <b>CHRISTIE, PARKER &amp; HALE</b> <b>P.O. Box 7068</b> <b>Pasadena, CA 91109-7068</b>					
				By <u>D. Bruce Prout</u>	
				D. Bruce Prout	
				Reg. No. 20,958	

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*This paper or fee is being deposited with the United States Postal Service "Express Mail  
Post Office to Addressee" under 37 CFR § 1.10, Mailing Label No. EL496226070US*

Applicant : Toshio Yamawaki  
Application No. : To Be Assigned  
Filed : April 24, 2000  
Title : COMMUNICATION GATEWAY  
DEVICE  
Grp./Div. : To Be Determined  
Examiner : To Be Determined  
Docket No. : 37395/DBP/A400

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PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Post Office Box 7068  
Pasadena, CA 91109-7068  
April 24, 2000

Commissioner:

Please amend the above-identified application as follows:

Please delete claims 1 through 9

Please insert new claims 10 through 18 as follows:

10. (Amended) A gateway device which interconnects two communication buses implemented with different communication methods, and in which information to be communicated is made up of a header field containing information such as an address necessary for communication and a message field containing information to be used at receiving side after the communication based on said header field is completed, said gateway device comprising:

judging means for judging, based on contents of said message field, whether or not the information received from one communication bus is information that should be transmitted to the other communication bus; and

filtering means for transmitting said received information to said other communication bus when said received information is judged by said judging means to be the information that should be transmitted.

11. (Amended) A gateway device which interconnects two communication buses implemented with different communication methods, and in which information to be communicated is made up of a header field containing information such as an address necessary for communication and a message field containing a command and a parameter accompanying said command, said gateway device comprising:

judging means for judging, based on said command, whether or not the information received from one communication bus is information that should be transmitted to the other communication bus; and

filtering means for transmitting said received information to said other communication bus when said received information is judged by said judging means to be the information that should be transmitted.

12. (Amended) A gateway device which interconnects two communication buses implemented with different

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communication methods, comprising:

judging means for judging whether or not information received from one communication bus is information that should be transmitted to the other communication bus;

storage means for storing the information that is judged by said judging means to be the information that should be transmitted; and

filtering means for comparing the information stored in said storage means with newly received information which is of the same kind as said stored information and is judged by said judging means to be the information that should be transmitted and, when their contents differ, transmitting said received information to said other communication bus while, at the same time, storing said received information in said storage means.

13. A gateway device as claimed in claim 12 further comprising:

means for transmitting the information stored in said storage means to said communication bus in accordance with a request made from said communication bus.

14. A gateway device as claimed in any one of

claims 10 to 13 wherein said gateway device interconnects two communication buses in an automobile.

5 15. (Amended) A method of gatewaying in a gateway device which interconnects two communication buses implemented with different communication methods, and in which information to be communicated is made up of a header field containing information such as an address necessary for communication and a message field containing information to be used at receiving side after the communication based on said header field is completed, said method of gatewaying comprising the steps of:

15 (a) judging, based on contents of the message field of said communication data, whether or not the information received from one communication bus is the information that should be transmitted to the other communication bus; and

20 (b) performing filtering to transmit said received information to said other communication bus when in said step (a) said received information is judged to be the information that should be transmitted.

25 16. (Amended) A method of gatewaying in a gateway device which interconnects two communication buses implemented with different communication methods, and in which information to be communicated is made up of a header field containing information such as an address necessary for communication and a message field containing a command and a parameter accompanying said command, said method of gatewaying comprising the steps of:

30 (a) judging, based on the command contained in the message field of said communication data, whether or not the information received from one communication bus is the information that should be transmitted to the other communication bus; and

35 (b) performing filtering to transmit said

received information to said other communication bus when in said step (a) said received information is judged to be the information that should be transmitted.

5 17. (Amended) A method of gatewaying in a gateway device which interconnects two communication buses implemented with different communication methods, comprising the steps of:

10 (a) judging whether or not information received from one communication bus is information that should be transmitted to the other communication bus;

(b) storing the information that is judged in said step (a) to be the information that should be transmitted; and

15 (c) performing filtering whereby the information stored in said step (b) is compared with newly received information which is of the same kind as said stored information and is judged in said step (a) to be the information that should be transmitted and, when their contents differ, said received information is  
20 transmitted to said other communication bus while, at the same time, storing said received information in said step (b).

18. (Amended) A method of gatewaying as claimed in claim 17, further comprising the step of:

25 (d) transmitting the information stored in said step (b) to said communication bus in accordance with a request made from said communication bus.

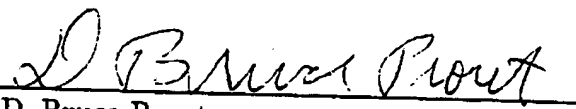
**Application No. To Be Assigned**

**REMARKS**

In view of the foregoing amendment, consideration and allowance of this application is respectfully requested.

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

By   
D. Bruce Prout  
Reg. No. 20,958  
626/795-9900

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Aug 2000

IN THE U.S. PATENT AND TRADEMARK OFFICE

09/530145

APPLICATION

Title: COMMUNICATION GATEWAY DEVICE

Priority Claimed? X YES

X Assignment Enclosed (List Assignee)

Fujitsu Ten Limited

Check(s) \$1,334.00 \$40.00

Transmittal Letter(s)

Application (No. of Pages)

Declaration & Pwr of Atty

Informal/Formal Drawings

3 Specimens/Photos/Facsimiles

Small Entity Declaration

Info Disc Stmt/PTO-1449

Petition-Extension of Time

PCRX ISR; IPR; Extra Set of Drawings

OTHER: English Trans. of Intl. Applic.;

of Annexes to IPR, & of Intl. Applic. w/Annexes Incorporated

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MARK: TM SM TM/SM COLL CERT ITU 44d 44e DIV

DOCKET: V/N Standard FOR REV FOR DEADLINE Parent Case FOR REV/DEADLINE

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Yes

Included

6 sheets

N/A

N/A

Yes

N/A

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Case No 37395

Client ID A400